

Exhibit C

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                                ColorLogic.h
// Useful methods for converting and comparing colors
////////////////////////////////////

#ifndef _COLOR_LOGIC_INCLUDE
#define _COLOR_LOGIC_INCLUDE

#include <math.h>

////////////////////////////////////
// ** NOTE ** NOTE ** NOTE ** NOTE ** NOTE ** NOTE ** NOTE **
////////////////////////////////////
// [REDACTED]
// [REDACTED]
// [REDACTED]
// [REDACTED]
// [REDACTED]
// [REDACTED]
// [REDACTED]
// This new method uses HSB space to determine if two colors are "too close"
// to each other be visible to on a CRT or LCD monitor. The value ranges
// that are used are based on several weeks of testing hundreds of monitors.
// [REDACTED]
////////////////////////////////////
// ** NOTE ** NOTE ** NOTE ** NOTE ** NOTE ** NOTE ** NOTE **
////////////////////////////////////

namespace ColorLogic
{
    // Hue/Saturation/Brightness struct
    typedef struct tagHSB
    {
        int nHue;                // Degree (0-360)
        int nSaturation;         // Percentage (0-100)
        int nBrightness;        // Percentage (0-100)
    } HSB;

    // Round a double to the given precision
    // Used in RGB->HSB conversion method
    double DblRound(double dValue, int dPrecision)
    {
        static const double dBase = 10.0f;
        double dComplete5, dComplete5i;

        dComplete5 = dValue * pow(dBase, (double)(dPrecision + 1));

        if(dValue < 0.0f)
            dComplete5 -= 5.0f;
        else
            dComplete5 += 5.0f;

        dComplete5 /= dBase;
        modf(dComplete5, &dComplete5i);

        return dComplete5i / pow(dBase, (double)dPrecision);
    }
}

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// returns the difference between the min and the max
int minmax(int i1, int i2)
{
    return max(i1, i2) - min(i1,i2);
}

// Converts the given RGB color to Hue/Saturation/Luminance
// Note: Photoshop seems to floor values instead of rounding...
//      rounding is more accurate
void RGB_to_HSB(COLORREF crRGB, HSB& hsb)
{
    WORD wRed = GetRValue(crRGB);
    WORD wGreen = GetGValue(crRGB);
    WORD wBlue = GetBValue(crRGB);

    // Find the min and max RGB values
    WORD wMax = max(wRed, max(wGreen, wBlue));
    WORD wMin = min(wRed, min(wGreen, wBlue));

    // Calculate the brightness
    hsb.nBrightness = (int)DblRound((((double)wMax * 100) / 255), 0);

    // If this is grey we are done
    if(wMax == wMin)
    {
        hsb.nHue = 0;
        hsb.nSaturation = 0;
    }
    else
    {
        // Calculate the saturation
        hsb.nSaturation = (int)DblRound((((double)100 * (wMax -
wMin)) / wMax), 0);

        // Calculate the hue
        double dDiff = wMax - wMin;
        double dR = (wMax - wRed) / dDiff;
        double dG = (wMax - wGreen) / dDiff;
        double dB = (wMax - wBlue) / dDiff;
        double dHue = 0;
        if(wRed == wMax)
            dHue = dB - dG;
        else if(wGreen == wMax)
            dHue = 2 + dR - dB;
        else if(wBlue == wMax)
            dHue = 4 + dG - dR;

        hsb.nHue = (int)DblRound((dHue * 60) + 360, 0) % 360;
    }
}

bool IsColorVisible(COLORREF crFG, COLORREF crBG)
{
    // RGB->HSB conversions
    HSB hsbFG, hsbBG;
    RGB_to_HSB(crFG, hsbFG);
    RGB_to_HSB(crBG, hsbBG);

    bool bVisible = true;
}
```

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```
// the hue is in degrees and can wrap around, so we find
// the shortest distance between the two colors
int nHueDiff = abs(hsbFG.nHue - hsbBG.nHue);
if(nHueDiff > 180)
    nHueDiff = abs(nHueDiff - 360);

// Saturation and Brightness differences are checked together
int nSDiff = abs(hsbFG.nSaturation - hsbBG.nSaturation);
int nBDiff = abs(hsbFG.nBrightness - hsbBG.nBrightness);
int nSBDiff = nBDiff + nSDiff;

// Handle B/W colors differently
// (since the HUE makes no difference)
if(max(hsbFG.nSaturation, hsbBG.nSaturation) <= 5
    && nSDiff < 6)
{
    if(nBDiff < 4)
        bVisible = false;
}
else
{
    // If the FG hue is within 5 of the BG hue...
    if(nHueDiff <= 5
        && nSBDiff <= 13)
    {
        bVisible = false;
    }
}

return bVisible;
}
} // namespace ColorLogic
#endif // _COLOR_LOGIC_INCLUDE
```